CLAIMS LISTING

1	CLAIMS LISTING
2	
	Claims 1-111 (canceled).
4 5 6 7 8	112. (Currently Amended) A computer-implemented business method for actively and declaratively managing, implementing, and executing a first dynamic process incorporating a dynamic pattern of operations driven by real-world conditions causing at least a first behavioral pattern to emerge, said computer-implemented business method
9	comprising:
10 11 12	(a) declaring and stating an <u>objective</u> Objective of said first dynamic process as a set of measurable Goals and Constraints;
13 14 15 16 17 18 19 20 21	(b) declaring and stating at least one objective Objective Rule Set having a plurality of Rules, said Rules in the said objective Objective Rule Set being defined to accomplish at least a part of said objective Objective by the combination of at least one subset thereof: wherein the Rules in said objective Objective Rule Set may act in any order subject to the limitation that, for any specific Rule in said objective Objective Rule Set, that specific Rule's Condition and applicable Constraints must be satisfied before that specific Rule's Action may occur.
22 23	the state of least one specific set of Actors consisting of at least one Actor
24 25	. Objective, stating the first subordinate objective Objective as a subset of
20	measurable Goals and subordinate Constraints;
2'	enthority via at least one Rule stating authority for attaining me
2	subordinate, measurable Goals of said first subordinate objective

Objective;

30

_	accountability via at least one Rule stating accountability for attaining the
l	subordinate, measurable Goals of said first subordinate objective
2	
3	Objective; and, responsibility via at least one Rule stating responsibility for attaining the
4	subordinate, measurable Goals of said first subordinate objective
5 .	Subordinate, measurable Goals of Sala Inverse Subordinate Constraints;
6	Objective subject to the Constitution and Substitution
7	D. W. Condition is satisfied and if so triggering
8	(d) determining if at least one Rule's Condition is satisfied and if so triggering
9	said Rule's Action;
10	wherein said Rule's Condition incorporates at least one Measurable value
11	Value from at least one member of a set of sources; and,
12	said set of sources comprises comprises a source internal to said first
13	dynamic process, a source external to said first dynamic process, and a
14	source in the real world;
15	and the Action of
16	(e) modifying at least one Element of said dynamic process through the Action of
17	(e) modifying at least one Electronic at least one input from an event in at least a Rule whose Condition is triggered by at least one input from an event in
18	the real world;
19	then of an Actor set comprising
20	(f) defining any Actor as being at least one member of an Actor set comprising
21	human agent, semi-automated agent, and automated agent;
22	S. Flomont set comprising a
23	(g) defining any Element as being one member of an Element set comprising a
24	(g) defining any Element as overly Goal, Rule, Rule Set, Condition, Action, Constraint, Measurable value Value, and
25	Delegation;
26	and the state of t
27	(h) defining each Rule so as to comprise a Condition that is satisfied when it
28	evaluates to a specified and predetermined value and an Action that is triggered
29	when the Condition is satisfied;
3∩	

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l	(i) determining the triggered Action of at least a first Rule and its relative order
2	(i) determining the triggered received and therefore the behavior of the dynamic with respect to a second Rule's Action, and therefore the behavior of the dynamic
3 .	process, at least partially by logical inference from Conditions and Constraints
4	rather than said relative order being predetermined and required by human
5	mandate;
6 7 8 9 10 11	(j) executing automatically at least a subset of the dynamic pattern of operations that progresses towards said <u>objective</u> Objective, defining said subset of the dynamic pattern of operations as comprising a plurality of operations, each operation therein being temporally contiguous to at least one other operation in said subset of the dynamic pattern of operations; and,
13	(k) specifying a plurality of Elements and implementing each of the steps of
14	declaring and stating, delegating, determining, and modifying, through a
15	declarative and therefore non-procedural representation.
16	
17	or 112 forther comprising iterating at
18	113. (Previously Presented) A method as in Claim 112 further comprising iterating at
19	least one of the steps of declaring and stating, delegating, determining, and modifying.
20	
21	of the step of
22	114. (Currently Amended) A method as in Claim 112, further comprising the step of
23	114. (Currently Aftended) A member 114. (Currently
24	process.
25	
26	115. (Previously Presented) A method as in Claim 112 wherein the dynamic process
27	115. (Previously Presented) A method as all contains a flow being that business's represents a business's operational flow, said operational flow being that business's
28	fundamental business activity of producing goods and services.
29	fundamental business activity of producing goods ———————————————————————————————————
30	

_	116. (Previously Presented) A method as in Claim 112 further comprising adding at least
1	one new Element to the dynamic process in response to at least one input.
2	one new Element to the dynamic province
3	·
4	Claim 112 further comprising the step of using
5	117. (Currently Amended) A method as in Claim 112 further comprising the step of using
6	117. (Currently Amended) A method as in Course to enable assessment of any member the measurable Goals and Measurable values Values to enable assessment of any member the measurable Goals and Measurable values are represented in the course of the course
7	of a set of assessments, that set of assessments comprising risk of error, minimum
8	of a set of assessments, that set of assessments of a set of assessments of a set of assessments, that set of assessments of a set of assessments of a set of assessments of a set of assessments, that set of assessments of a set
9	of deviation from the Goal due to the Action of any Rule, performance of at least one
10	Actor, and relative efficiencies among any two Actors.
11	
12	and the sample of the sample o
13	118. (Previously Presented) A method as in Claim 112 further comprising using the
14	118. (Previously Presented) A metalog as 20 and 118. (Previously Presented) A metalog as 20 and 118. (Previously Presented) A metalog as 20 and 20 an
15	a set comprising accounting control, regulatory control, and reporting without first
16	requiring that the dynamic process terminate.
17	·
18	and the said method forms a
19	119. (Previously Presented) A method as in Claim 112 wherein said method forms a
20	business autopilot, which, once initiated, requires no human intervention to manage
21	successful execution of said subset of the dynamic pattern of operations even when
22	Actions and operations are implemented by human Actors.
23	
24	112 forther comprising:
25	120. (Currently Amended) A method as in Claim 112, further comprising:
20	including a set of Constraints consisting of at least one Constraint;
2	including a set of Consultation of at least a first contained Contained Rule; including a first Rule Set consisting of at least a first contained Contained
2	7 including a first Rule Set consisting of at least a second contained Contained 8 including a second Rule Set consisting of at least a second contained
2	9 Rule; and,
3	including a set of ordering Rules consisting of at least one ordering Rule;

1	wherein the relative order by which each first contained Contained Rule Set are satisfied is
2	and Contained Rule in the second reason
3	and locat one member of a set comprising the
4	as making the Action of each Commined Rule and
5	implicit Rule precedence making the French and the set of Constraints, and the set of satisfy a Condition of the second Contained Rule, the set of Constraints, and the set of
6	ordering Rules.
7	
8	Oleim 112, further comprising declaring and
9	121. (Currently Amended) A method as in Claim 112, further comprising declaring and
10	stating at least a first Rule Set and a second Rule Set, wherein the second Rule Set is
11	stating at least a first Rule Set and a second rule Set inherits from the first subordinate to the first Rule Set, and wherein the second Rule Set inherits from the first subordinate to the first Rule Set as a Constraint on the
12	Rule Set at least one Condition of a Rule in the first Rule Set as a Constraint on the
13	Rule Set at least one Condition of a Rule in the first Rule Set as a Goal of the second Rule Set and at least one Action of a Rule in the first Rule Set as a Goal of the
14	second Rule Set.
15	
16	122. (Currently Amended) A method as in Claim 112, further comprising declaring and
17	122. (Currently Amended) A method as in Claim 122, the second Rule Set is stating at least a first Rule Set and a second Rule Set, wherein the second Rule Set is
18	stating at least a first Rule Set and a second Rule Set, wastern at least one change in Constraints by Action subordinate to the first Rule Set, and wherein at least one change in Constraints by Action
19	subordinate to the first Rule Set, and wherein at teast one start Rule Set.
20	of at least one Rule of the second Rule Set is passed to the first Rule Set.
2	l
2	2 Claim 112- wherein said declarative and
2	2 3 123. (Currently Amended) A method as in Claim 112, wherein said declarative and
2	123. (Currently Amended) A memory at the least one member of a representation set therefore non-procedural representation is at least one member of a representation set
2	comprising symbolic logic and declarative computer language.
2	26
2	27 Claim 112- wherein for at least one Rule:
:	124. (Currently Amended) A method as in Claim 112, wherein for at least one Rule: the Condition of said Rule detects a difference between at least one Element of
:	the Condition of said Rule detects a difference between the terms of said dynamic process and a Measurable value Value from at least one input, and said dynamic process and a Measurable value value one Element of said
	said dynamic process and a Measurable value value value of said the Action of said Rule has an effect effect on at least that one Element of said
	31 the Action of said Rule has an effect whose on at least

first dynamic process by modifying that one Element to do at least one member of a response set comprising accommodate the Measurable value, and adjust 1 performance of said dynamic process as indicated by the Measurable value Value. 2 3 4 125. (Currently Amended) A method as in Claim 112 further comprising analyzing the 5 efficiency of a business operation by measuring the deviation of Measurable values 6 7 Values from measurable Goals. 8 9 10 126. (Previously Presented) A method as in Claim 112 further comprising: incorporating a set of resolving Constraints comprising at least one member of a 11 12 resolving set comprising a resolving Constraint and a resolving Rule; and, 13 incorporating at least one ambiguous Rule; wherein said set of resolving Constraints determines whether the ambiguous Rule's 14 Action will be triggered when the evaluation of the ambiguous Rule's Condition is not a 15 value that has been otherwise determined to cause the ambiguous Rule's action to trigger. 16 17 18 127. (Previously Presented) A method as in Claim 112 wherein, in the step of delegating, 19 at least one member of what is delegated to one specific Actor is a consequence of the 20 21 Rules, Constraints, and measurements associated with an Actor. 22 23 128. (Previously Presented) A method as in Claim 112 wherein at least one Element 24 25 maintains consistency among any combination of authority to act, responsibility, 26 response to operational failure, and accountability. 27 28 129. (Previously Presented) A method as in Claim 112 wherein at least one Rule makes 29 30 explicit why Actions are undertaken and what is to be achieved. 31

1 130. (Currently Amended) A method as in Claim 112 further comprising replacing a first 2 unrefined Unrefined Rule by a set of refinement Rules that include at least the Action of 3 the first unrefined Unrefined Rule without the set of refinement Rules including the first 4 5 unrefined Unrefined Rule. 6 7 8 131. (Currently Amended) A method as in Claim 130 further comprising: 9 incorporating a first risk of error associated with the first unrefined Unrefined 10 Rule; 11 incorporating a second risk of error associated with a second refinement 12 Refinement Rule belonging to the set of refinement Rules; 13 wherein the second refinement Rofinement Rule has the least risk of error of any refinement Refinement Rule in the set of refinement Rules; and wherein the second risk 14 15 of error is not greater than the first risk of error. 16 17 132. (Currently Amended) A method as in Claim 112 wherein the step of declaring and 18 19 stating at least one objective Objective Rule Set comprises stating at least a first objective Objective Rule Set and a second objective Objective Rule Set, wherein the first objective 20 21 Objective Rule Set operates at a first level of the dynamic process and the second 22 objective Objective Rule Set operates at a second level of the dynamic process. 23 24 25 133. (Currently Amended) A method as in Claim 132, wherein said first and second 26 levels are indistinct and said first objective Objective Rule Set and said second objective 27 Objective Rule Set form a peer to peer organization. 28 29 30

134. (Currently Amended) A method as in Claim 132, wherein said first and second levels are distinct and said first objective Objective Rule Set and said second objective l 2 Objective Rule Set form a hierarchical organization. 3 4 5 135. (Currently Amended) A method as in Claim 112, further comprising declaring and 6 stating at least a first Rule Set and a second Rule Set, wherein the second Rule Set is subordinate to the first Rule Set, and wherein the first Rule Set further receives, from the 7 second Rule Set, the result of an Action by a Rule of the second Rule Set as satisfaction 8 9 of at least one Condition of a Rule of the first Rule Set. 10 11 12 136. (Currently Amended) A method as in Claim 135, wherein the first Rule Set further comprises at least a superior objective Objective and wherein the Action of the second 13 Rule Set conveys information to the first Rule Set sufficient for the first Rule Set to alter 14 at least the superior objective Objective when the superior objective Objective does not 15 16 conform to a Measurable value Value from the real world. 17 18 19 137. (Currently Amended) A method as in Claim 112, further comprising: 20 including at least a second Rule Set comprising a set of Rules that are connected 21 and have no Rule for which both its Condition is not satisfied by some 22 combination of Actions and events, and its Action does not eventually in combination with the Actions of other Rules in the set satisfy the Conditions of at 23 24 least one Rule: 25 including at least a first Satisfied Rule in said second Rule Set whose Condition 26 has been satisfied at least once; 27 and, 28 further including a set of pairs comprising an identification of at least one 29 satisfied Satisfied Rule and a time said satisfied Satisfied Rule was satisfied, said 30 set of pairs being partially ordered and constituting a first subordinate process. 31

1 2 138. (Previously Presented) A method as in Claim 137 wherein the second Rule Set comprises the entire set of satisfied Rules of the first dynamic process and no explicit 3 ordering of the Rules in the second Rule Set is provided in defining said first dynamic 4 5 6 process. 7 139. (Previously Presented) A method as in Claim 112 wherein said set of Rules includes 8 9 at least one anticipatory Rule, the satisfaction of the Condition portion of said anticipatory Rule being merely a possibility and neither a prediction nor a mandate, when 10 11 said anticipatory Rule is initially stated. 12 13 14 140. (Currently Amended) A method as in Claim 139 wherein said Condition of said anticipatory Rule incorporates at least one conjunct which, at the time of creation of the 15 16 Rule, incorporates a Measurable value Value that is contrary to the known and projected 17 state of the real world. 18 19 20 141. (Previously Presented) A method as in Claim 112 further comprising: 21 storing said declarative and therefore non-procedural representation in a static and 22 stable form; and, 23 preserving human knowledge of said dynamic process. 24 25 26 142. (Currently Amended) A method as in Claim 141 further comprising the steps of 27 organizing in a first business entity said declarative and therefore non-procedural 28 representation of said dynamic process for conveyance to a second business 29 entity; and, 30

conveying said declarative and therefore non-procedural representation from the 1 first business entity to the second business entity. 2 3 143. (Previously Presented) A method as in Claim 141 wherein said declarative and 4 therefore non-procedural representation of said dynamic process stores knowledge of at least one member of a set comprising organizational management, at least one model of 5 6 business organization, at least one operational process, and at least one strategic process. 7 8 9 144. (Currently Amended) A method as in Claim 141 further comprising the steps of: 10 retrieving at least a portion of said declarative and therefore non-procedural 11 representation; and, 12 instantiating said portion of said declarative and therefore non-procedural 13 representation as a second dynamic process in a business. 14 15 145. (Currently Amended) A method as in Claim 112 wherein the step of delegating to at 16 least one specific Actor further comprises: 17 a first Actor at a first level stating a plurality of business Rules comprising 18 possible Conditions, each Condition comprising at least one member of a set 19 comprising factual circumstance, market situation, business event, and 20 Measurable value Value, and joined with at least one corresponding desired 21 Action matching a first measurable Goal; 22 a second Actor at a second level identifying a Goal-achieving set of business 23 Rules enabling said first measurable Goal to be attained; 24 and.÷ 25 said second Actor communicating at least a first result of the Goal-achieving set 26 of Rules to said first Actor. 27 28 29 146. (Previously Presented) A method as in Claim 145 wherein said plurality of business 30 Rules are responsive to a plurality of events, and wherein the actual operation of the 31

plurality of business Rules are combined to form a business process independent of any 1 pre-existing definition of the business process. 2 3 147. (Previously Presented) A method as in Claim 145 wherein said measurable Goal is 4 expressed as at least one Goal Rule comprising a Goal Condition which identifies said 5 measurable Goal and a Goal Action which specifies any combination of the members of a 6 measure set consisting of a measure of success, a measurement Constraint, and a measure 7 8 of failure. 9 10 148. (Currently Amended) A method as in Claim 145 wherein the first Actor further: 11 identifies the maximum acceptable risk associated with each risky Risky Rule in a 12 13 first risky Risky Rule Set at the second level; 14 determines the risk associated with each risky Risky Rule; and, for each risky Risky Rule in the first risky Risky Rule Set with risk that is not 15 below the maximum acceptable risk associated with said risky Risky Rule, further 16 refines Actions of each such risky Risky Rule by delegating its Actions as a Goal 17 18 to a third Rule Set, and the third Rule Set is at a third level. 19 20 21 149. (Previously Presented) A method as in Claim 145 wherein the step of communicating further comprises stating at least one Rule having at least one Condition 22 23 responsive to said desired Action and having an Action that performs said step of 24 communicating. 25 26 27 150. (Previously Presented) A method as in Claim 145 wherein said first result is a 28 qualitative measure of at least one member of a set of measurable properties comprising 29 performance and Goal completion. 30 31

151. (Previously Presented). A method as in Claim 145 wherein said first Actor effects ı Delegation to at least one subordinate Actor any combination of any number of the 2 members of a Delegation set consisting of responsibility, accountability, and authority 3 4 that belong to the first Actor. 5 6 152. (Previously Presented) A method as in Claim 151 wherein said first Actor further 7 effects Delegation by a Delegation Rule comprising at least one Delegation Condition 8 which tests the appropriateness of achieving said desired Action and at least one Action 9 10 which identifies at least one Actor as recipient of said Delegation. 11 12 153. (Previously Presented) A method as in Claim 152 wherein the Delegation Rule 13 delegates authority by at least one member of a set comprising establishing at least one 14 Rule Set, modifying at least one Rule Set, and deleting at least one Rule Set. 15 16 17 154. (Previously Presented) A method as in Claim 151 wherein the first Actor delegates 18 authority by at least one member of a set comprising establishing at least one Rule Set, 19 20 modifying at least one Rule Set, and deleting at least one Rule Set. 21 22 155. (Previously Presented) A method as in Claim 151 wherein said Delegation of 23 accountability is accomplished by enabling at least one member of a set, comprising said 24 25 second Actor and said second Rule, to alter at least one member of a set comprising 26 measurement of predefined success and measurement process. 27 28 156. (Previously Presented) A method as in Claim 145 further comprising identifying a 29 30 second Actor according to a Goal stated as a set of requirements Rules and a set of 31

	requirements Constraints, and according to measurements stated as a set of capabilities
	Rules.
_	Ruics.
3 4 5 6 7 8 9 10 11 12	157. (Currently Amended) A method as in Claim 156, wherein each requirement Rule in said set of requirements Rules comprises both: at least one requirements Condition identifying at least one member of a set comprising the desired Action and at least one capability required to accomplish said desired Action; and, at least one requirements Action identifying at least one member of a set comprising at least one capability of said second Actor and said desired Action.
13 14 15 16 17 18 19	one capabilities Action identifying at least one Actor having said of the capabilities action identifying at least one Actor having said of the capabilities action identifying at least one Actor having said of the capabilities action identifying at least one Actor having said of the capabilities action identifying at least one Actor having said of the capabilities action identifying at least one Actor having said of the capabilities action identifying at least one Actor having said of the capabilities action identifying at least one Actor having said of the capabilities action identifying at least one Actor having said of the capabilities action identifying at least one actor having said of the capabilities actor identifies a capabilities actor identifies actor identifies a capabilities
21 22 23 24 2	159. (Currently Amended) A method as in Claim 156, further comprising a step of matching said second Actor with said desired Goal by at least one criteria for comparing at least one requirements Rule and at least one capabilities Rule.
2	160. (Previously Presented) A method as in Claim 159 wherein said criteria is established using at least one member of a match set comprising a best fit match algorithm, a fuzzy match algorithm, an approximate match algorithm, and an exact match algorithm. match algorithm, an approximate match algorithm, and an exact match algorithm.

	161. (Currently Amended) A method as in Claim 112 wherein the step of modifying at
1	the Action of at least a Rule Wilder
2	least one input from at least one real-world event, further comprises:
3	
4	defining a first adaptation process comprising at least one adaptation Rule;
5	
6	constructing the adaptation Rule from a third Third Rule and requiring in the
7	and the set of the member of a set of recession
8	adaptation Rule's Action at least one interest on interest and adaptation resolution, conflict Element creation, self-modification, feedback, contradiction resolution, conflict
9	Element creation, self-modification, recognition making, each of which is not resolution, correction for failure, and decision making, each of which is not
10	resolution, correction for failure, and devision
11	already any previously existing Rule's Action;
12	get a plantation Rule through an event; and,
13	satisfying the Condition of the adaptation Rule through an event; and,
14	the Action of the adaptation Rule.
15	affecting at least one Element through the Action of the adaptation Rule.
16	
17	Give 161 wherein said first adaptation
18	162. (Previously Presented) A method as in Claim 161 wherein said first adaptation
19	· · Jamendant of any external agent.
2	
2	
	2. 163. (Previously Presented) A method as in Claim 161 turtuel comprises
	fals adaptive Rule is satisfied by personal
	- motrice: and the Action of the adaptive retains
	or least one member of a set comprising business events, business
	to the designors business Rules, and business processes.
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	 164. (Currently Amended) A method as in Claim 161 further comprising:
	30 164. (Currently Amended) A months

1	modifying, through the Action of at least one adaptation Rule, at least a first
2	changed Changed Rule instantiated at a first level;
3	changed Changed Rule instantiated at a most send Changed Rule instantiated at a effectively modifying through the first changed Changed Rule instantiated at a
4	first level at least a first Goal of the first level; and
5	permitting but not requiring intervention from a higher level.
6	
7	Object 161 further comprising:
8	165. (Currently Amended) A method as in Claim 161 further comprising:
9	165. (Currently Amended) A method as in Claim 151 to the at least one real_world continuously monitoring for at least one occurrence of the at least one real_world
10.	event; and, continuously modifying the Elements of the dynamic process, in response to the
11	continuously modifying the Elements of the Systems
12	occurrence of the at least one real-world event.
13	
14	1 . d on in Claim 161 further comprising:
15	166. (Currently Amended) A method as in Claim 161 further comprising: incorporating at least one member of a set of dynamic processes comprising
16	incorporating at least one member of a set of dynamics of both objectives Objectives and creation, deletion, modification, and correction of both objectives Objectives and
17	creation, deletion, modification, and correstors
18	Elements; linking the adaptation process to at least one member of the set of dynamic
19	
20	processes; and, modifying the <u>objectives</u> Objectives and Elements by the adaptation process modifying the <u>objectives</u> Objectives and Elements by the adaptation process
21	modifying the objectives Objectives and Elements of a set comprising Conditions and Constraints.
22	according to at least one member of a set comprises
23	
24	167. (Previously Presented) A method as in Claim 161 wherein the step of modifying at
25	
26	
27	detecting a contradiction;
2	changing at least one Rule Set, further comprising: identifying at least a first and second conflicting Rule; and,
2	identifying at least a first and second controlled resolving and least a first and second controlled resolving adding a resolving the contradiction by at least one member of a set comprising adding a resolving the contradiction by at least one member of a set comprising adding a
3	resolving the contradiction by at least one monitor of the resolving the contradiction by at least one monitor of the resolving the contradiction by at least one monitor of the resolving the contradiction by at least one monitor of the resolving the contradiction by at least one monitor of the resolving the contradiction by at least one monitor of the resolving the contradiction by at least one monitor of the resolving the contradiction by at least one monitor of the resolving the contradiction by at least one monitor of the resolving the contradiction by at least one monitor of the resolving the contradiction by at least one monitor of the resolving the contradiction by at least one monitor of the resolving the contradiction by at least one monitor of the resolving the contradiction by at least one monitor of the resolving the contradiction by at least one monitor of the resolving the
3	new Constraint, altering a existing Constraint, adding a series

one of the first and second conflicting Rules, and eliminating at least one of the 1 first and second conflicting Rules; and, logically differentiating the Actions of the first and second conflicting Rules. 2 3 4 168. (Previously Presented) A method as in Claim 161 further comprising reducing at 5 least one operational latency in the dynamic process through the Action of the adaptation 6 7 Rule. 8 9 169. (Previously Presented) A method as in Claim 161 wherein the adaptation Rule's 10 Condition is satisfied when a first contradiction occurs, and the adaptation Rule's Action 11 12 modifies at least one Element. 13 14 170. (Previously Presented) A method as in Claim 169 wherein the first contradiction 15 comprises at least first and second logically-conflicting Elements, and the adaptation 16 Rule's Action selects one of the conflicting Elements through at least one member of a 17 set of selection techniques comprising random selection, deterministic selection, and 18 19 arbitrary selection, and modifies the selected Element. 20 21 171. (Previously Presented) A method as in Claim 170 wherein the modification of the 22 selected Element prevents simultaneous application of the first and second logically-23 24 conflicting Elements. 25 26 172. (Previously Presented) A method as in Claim 169 wherein the first contradiction 27 comprises at least first and second logically-conflicting Elements, and the adaptation 28 Rule's Action alters at least one of the first and second logically-conflicting Elements and 29 creates a differentiation between the first conflicting Rule's Condition and the second 30 31

ł	conflicting Rule's Condition, said differentiation preventing the first conflicting Rule's
2	Condition and the second conflicting Rule's Condition from being satisfied by the same
3	set of measurable inputs and Elements.
4	
5	
6	173. (Previously Presented) A method as in Claim 172 wherein the adaptation Rule's
7	Action alters at least one of the first and second logically-conflicting Elements, modifies
8	the first logically-conflicting Element to include a Constraint not present in the second
9	logically-conflicting Element, and prevents the possibility of the first and second
10	logically-conflicting Elements from simultaneously occurring.
11	
12	
13	174. (Previously Presented) A method as in Claim 161 wherein the step of constructing
14	the adaptation Rule further comprises:
15	stating the adaptation Rule's Condition to be satisfied when a first failure occurs
16	and,
17	stating the adaptation Rule's Action to both incorporate modification of at least
18	one Element and effect a correction for the first failure.
19	
20	
21	175. (Previously Presented) A method as in Claim 174 wherein the first failure comprises
22	not attaining a first Goal and the modification of at least one Element enables the first
23	Goal to be attained by correcting at least one member of a set comprising at least one
24	cause of the first failure and at least one effect of the first failure.
25	
26	
27	176. (Previously Presented) A method as in Claim 174 wherein the modification of at
28	least one Element includes at least one member of a set of steps comprising creating,
29	modifying, and deleting a second adaptation Rule.
30	
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177. (Currently Amended) A method as in Claim 174 wherein the first failure comprises 2 not detecting a Measurable value Value and the modification of at least one Element 3 comprises at least one member of a set comprising creating the Element, modifying the Element, and deleting the Element. 4 5 6 7 178. (Currently Amended) A method as in Claim 174, wherein a second failure 8 comprises not attaining a second Goal and the modification of at least one Element 9 includes the step of redeclaring and restating at least one Action of at least one Rule as a 10 second dynamic process. 11 12 13 179. (Currently Amended d) A method as in Claim 174, wherein the first failure 14 comprises not attaining a first Goal and the modification of at least one Element enables 15 said first Goal to be attained by correcting at least one member of a failure set comprising 16 at least a first cause of the first failure and at least a first effect of the first failure. 17 18 180. (Currently Amended) A method as in Claim 174 wherein the adaptation Rule's 19 - 20 Action modifies at least a member Rule of the objective Objective Rule Set and, when the 21 member Rule's Condition is satisfied, the member Rule's Action modifies, without 22 human intervention, at least a first member of the set of measurable Goals. 23 24 25 181, (Currently Amended) A method as in Claim 174 wherein the adaptation Rule's 26 Action modifies at least a first Adaptable Rule of a set of Rules and, when the first adaptable Adaptable Rule's Condition is satisfied, the first adaptable Adaptable Rule's 27 28 Action modifies, without human intervention and without modification of any Rule of the objective Objective Rule Set, at least a first member of a set comprising subordinate 29 Goals and measurable Goals. 30 31

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2	182. (Currently Amended) A method as in Claim 174, wherein the step of declaring and
3	stating at least one objective Objective Rule Set further comprises:
4	stating at least a first objective Objective Rule Set and a second objective
5	Objective Rule Set, wherein the first objective Objective Rule Set operates at a
6	first level of the dynamic process and the second objective Objective Rule Set
7	operates at a second level of the dynamic process;
8	and wherein the adaptation Rule's Condition effectively defines the need for a
9	closed_loop effect in said first level and the adaptation Rule's Action changes at
10	least one Element in said second level.
11	
12	
13	183. (Currently Amended) A method as in Claim 174, wherein the step of modifying at
14	least one Element comprises modifying at least one member of a set comprising Goal,
15	Rule, Rule Set, Condition, Action, Constraint, Measurable value Value, and Delegation.
16	
17	
18	184. (Currently Amended) A method as in Claim 174 wherein the step of declaring and
19	stating at least one objective Objective Rule Set comprises stating at least a first objective
20	Objective Rule Set and a second objective Objective Rule Set:
21	wherein the first objective Objective Rule Set operates at a first level of the
22	dynamic process and the second objective Objective Rule Set operates at a second
23	level of the dynamic process; and,
24	wherein a first Goal is associated with the first level and a second Goal is
25	associated with the second level; and the first Goal and the second Goal overlap
26	by having a <u>sub-goal</u> subgoal in common.
27	
28	
29	185. (Previously Presented) A method as in Claim 184 further comprising modifying the
30	overlap to avoid at least one member of a set comprising confrontation problems and
31	race-condition problems.

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2 3 186. (Currently Amended) A method as in Claim 112, wherein the step of declaring and 4 stating at least one objective Objective Rule Set comprises stating at least a first objective 5 Objective Rule Set and a second objective Objective Rule Set, wherein the first objective 6 Objective Rule Set operates at a first level of the dynamic process and the second 7 objective Objective Rule Set operates at a second level of the dynamic process, and further comprising an organizing Rule comprising: 8 9 an organizing Condition; and 10 an organizing Action; 11 and the organizing Condition is satisfied by the Condition of at least one Rule in said first 12 objective Objective Rule Set and the organizing Action comprises at least the second 13 objective Objective Rule Set. 14 15 16 187. (Previously Presented) A method as in Claim 186 wherein said organizing Action 17 delegates at least one member of the set comprising a Rule Set, authority, accountability, 18 and responsibility, and said organizing Rule creates a hierarchical Delegation. 19 20 21 188. (Currently Amended) A method as in Claim 112 wherein the step of declaring and 22 stating at least one objective Objective Rule Set further comprises stating at least a first 23 objective Objective Rule Set and a second objective Objective Rule Set, wherein the first objective Objective Rule Set operates at a first level of the dynamic process and the 24 25 second objective Objective Rule Set operates at a second level of the dynamic process, 26 and wherein the response to at least one Action of at least one Rule in the first objective 27 Objective Rule Set becomes at least one Condition of at least one Rule in the second 28 objective Objective Rule Set. 29 30

1	189. (Previously Presented) A method as in Claim 188 wherein the first level and the
2	second level are identical, and at least one Rule in the first Rule Set receives at least one
3	response of at least one Rule in the second Rule Set as its Condition.
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6	190. (Previously Presented) A method as in Claim 141 further comprising:
7	analyzing the business operations represented in said declarative and therefore
8	non-procedural representation; and,
9	refining and tuning at least one member of a set comprising Decision, Business
10	Rule, and Business Process.
11	
12	191. (Canceled)
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14	192. (Currently Amended) An apparatus for actively and declaratively managing,
15	implementing, and executing a first dynamic process incorporating a dynamic pattern of
16	operations driven by real-world Conditions, through which at least a first behavioral
17	pattern emerges, comprising:
18	
19	static memory containing:
20	a set of measurable Goals and Constraints of said first dynamic process;
21	at least one Rule Set having a plurality of Rules:
22	wherein the Rules in said Rule Set may act in any order subject to
23	the limitation that, for any specific Rule in said Rule Set, that
24	specific Rule's Condition and applicable Constraints must be
25	satisfied before that specific Rule's Action may occur;
26	a declarative and therefore non-procedural representation of each Element
27	and any of a set of steps of declaring, stating, delegating, determining, and
28	modifying;
29	
30	means for accepting at least one input from the real world, said input comprising
31	Measurable <u>value</u> ;

1 2 means for comparing any input against the Condition of all Elements contained in 3 the static memory; 4 5 means for delegating to at least one specific set of Actors consisting of at least 6 one Actor: 7 at least a first subordinate objective Objective, subordinate to the objective 8 Objective, stating the first subordinate objective Objective as a subset of 9 subordinate, measurable Goals and subordinate Constraints; a set of Rules for accomplishing said first subordinate objective Objective; 10 authority via at least one Rule stating authority for attaining the 11 subordinate, measurable Goals of said first subordinate objective 12 13 Objective; accountability via at least one Rule stating accountability for attaining the 14 subordinate, measurable Goals of said first subordinate objective 15 16 Objective; and, responsibility via at least one Rule stating responsibility for attaining the 17 subordinate, measurable Goals of said first subordinate objective 18 19 Objective subject to the Constraints and subordinate Constraints; 20 means for determining if at least one Rule's Condition is satisfied and if so 21 22 subsequently triggering said Rule's Action wherein said Rule's Condition incorporates at least one Measurable value Value from at least one member of a 23 24 set of sources and said set of sources comprises comprise a source internal to said 25 first dynamic process, a source external to said first dynamic process, and a 26 source in the real world; 27 28 means for modifying at least one Element through the Action of at least a Rule whose Condition is triggered by at least one input from an event in the real world; 29 30

1 means for executing automatically at least a subset of the dynamic pattern of operations, defining said subset of the dynamic pattern of operations as 2 3 comprising a plurality of operations, each operation therein being temporally 4 contiguous to at least one other operation in said subset of the dynamic pattern of 5 operations; and, 6 7 means for specifying a plurality of Elements and implementing each of the steps 8 of declaring and stating, delegating, determining, and modifying, through a 9 declarative and therefore non-procedural representation; 10 means for using said set of steps of declaring, stating, delegating, determining, 11 12 and modifying, to further the attainment of a Goal of said first dynamic process 13 independent of human action; and, 14 15 means for iterating through the steps of declaring, stating, delegating, 16 determining, and modifying. 17 18 19